

We claim:

1. A method of isolating one or more taxanes from a taxane containing mixture, the method comprising the steps of:
 - (a) treating the mixture with a PBS resin; wherein the one or more taxanes are derived from one or more *Taxus* plants, wherein the one or more taxanes are not derived solely from *Taxus brevifolia*;
 - (b) eluting the one or more taxanes from the PBS resin with an eluant; and
 - (c) recovering the eluted one or more taxanes.
2. A method of isolating one or more taxanes from a taxane containing mixture, the method comprising the steps of:
 - (a) treating the mixture with a PBS resin; wherein the mixture comprises less than 25% or greater than 40% by weight of primary taxanes;
 - (b) eluting the one or more taxanes from the PBS resin; and
 - (c) recovering the eluted one or more taxanes.
3. A method of isolating one or more taxanes, the method comprising the steps of:
 - (a) treating a taxane containing mixture with a PBS resin; wherein the mixture comprises from about 25% to 40% by weight of primary taxanes; wherein the one or more taxanes are not derived solely from *Taxus brevifolia*;
 - (b) eluting the one or more taxanes from the PBS resin; and
 - (c) recovering the eluted one or more taxanes.

4. A method of isolating one or more taxanes from material comprising taxane compounds obtained from a semi-synthesis or total synthesis process, the method comprising the steps of:

- (a) treating the material with a PBS resin; wherein molecules used as reactants in the semi-synthetic or total synthetic process are not derived solely from *Taxus brevifolia*;
- (b) eluting the one or more taxanes from the PBS resin; and
- (c) recovering the eluted one or more taxanes..

5. A method of isolating one or more taxanes from material comprising taxane compounds obtained from a semi-synthesis or total synthesis process:

- (a) treating the material with a PBS resin; wherein the material comprises less than about 8% by weight of C-2' benzoates of taxol A, B, C, D, E, F or G, combined;
- (b) eluting the one or more taxanes; and
- (c) recovering the eluted one or more taxanes.

6. A method of isolating one or more taxanes from material comprising taxane compounds obtained from a semi-synthesis or total synthesis process:

- (a) treating the material with a PBS resin; wherein the material comprises less than 1.0% by weight of C-2' benzoates of taxol B, C, D, E, F, or G, combined;
- (b) eluting the one or more taxanes; and
- (c) recovering the eluted one or more taxanes.

7. A method of isolating taxol A from a naturally derived taxane containing mixture, said method comprising the steps of:

- (a) treating the taxane mixture with a PBS resin;
- (b) eluting the taxol A from the PBS resin; and
- (c) recovering the eluted taxol A.

8. A method of purifying one or more taxanes from a biomass extract, said method comprising the step of :

- (a) preparing the biomass extract by means other than chromatography;
- (b) treating the biomass extract with a PBS resin;
- (c) eluting the one or more taxanes from the PBS resin; and
- (d) recovering the eluted one or more taxanes.

9. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* cultivars,

10. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* ‘Hicksii’.

11. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* ‘Dark Green Spreader’.

12. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus baccata*.

13. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus cuspidata*.

14. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus floridana*.

15. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus canadensis*.

16. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus wallichiana*.

17. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus yunnanensis*.

18. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus chinensis*.

19. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* ‘Densiformis’.

20. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* ‘Brownii’.

21. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* ‘Hicksii’.

22. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* ‘Runyan’.

23. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* ‘Wardii’.

24. The method of claims 1-3, wherein the taxane containing material comprises a biomass extract derived from *Taxus media* ‘Tautonii’.

25. The method of claims 4-6, wherein the taxane to be isolated is taxol A.

26. The method of claims 4-6, wherein the taxane to be isolated is taxol B.

27. The method of claims 4-6, wherein the taxane to be isolated is taxol C.

28. The method of claims 4-6, wherein the taxane to be isolated is taxol D.

29. The method of claims 4-6, wherein the taxane to be isolated is taxol E.

30. The method of claims 4-6, wherein the taxane to be isolated is taxol F.

31. The method of claims 4-6, wherein the taxane to be isolated is taxol G.

32. The method of claims 4-6, wherein the taxane to be isolated is docetaxel.

33. The method of claims 1-8, wherein the PBS resin has an average pore size ranging from about 60 to about 300 Angstrom Units.

34. The method of claims 1-8, wherein the PBS has an average pore size ranging from about 100 to about 200 Angstrom Units.

35. The method of claims 1-8, wherein the PBS has an average pore size from about 120 Angstrom Units.

36. The method of claims 1-8, wherein the PBS has an average particle size ranging from about 0.25 to about 500 microns.

37. The method of claims 1-8, wherein the PBS resin has an average particle size ranging from 1 to 100 microns.

38. The method of claims 1-8, wherein the PBS has an average particle size ranging from about 10 to about 120 microns.

39. The method of claims 1-8, wherein the PBS has an average particle size of about 20 to about 60 microns.

40. The method of claims 1-8, wherein the PBS has an average particle size of about 40 microns.

41. The method of claims 1-8, wherein the PBS resin is DEAM.
42. The method of claims 1-8, wherein the PBS resin is PEI.
43. The method of claims 1-8, wherein the PBS resin has an average pore size ranging from about 60 to about 800 Angstrom Units.
44. The method of claims 1-8, wherein the PBS resin has a primary or secondary amino group on the polyethyleneimine moiety.
45. The method of claims 1-8, wherein the amino groups of the PEI polymer are functionalized.
46. The method of claims 4-6, wherein the eluted one or more taxanes have a purity of at least about 70%.
47. The method of claims 4-6, wherein the eluted one or more taxanes have a purity of at least about 80%.
48. The method of claims 4-6, wherein the eluted one or more taxanes have a purity of at least about 90%.